IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	§	
BEN-GAL et al	§	
Serial No.: 10/076,620	§	
Filed: February 19, 2002	§	Group Art Unit: 2123
For: STOCHASTIC MODELING OF TIME DISTRIBUTED SEQUENCES	§	Attorney Docket: 01/21716
Examiner:	§	

Commissioner of Patents and Trademarks
Washington, D.C. 20231

LETTER TO CHIEF DRAFTSMAN

Sir:

Pursuant to the authorization of the Examiner, please correct Figs. 1, 2, 5a, 5b, 12 and 20 as indicated in red on the attached drawing sheets.

Respectfully submitted,

Sol Sheinbein
Attorney for Applicant
Registration No. 25,457

Date: May 16, 2002

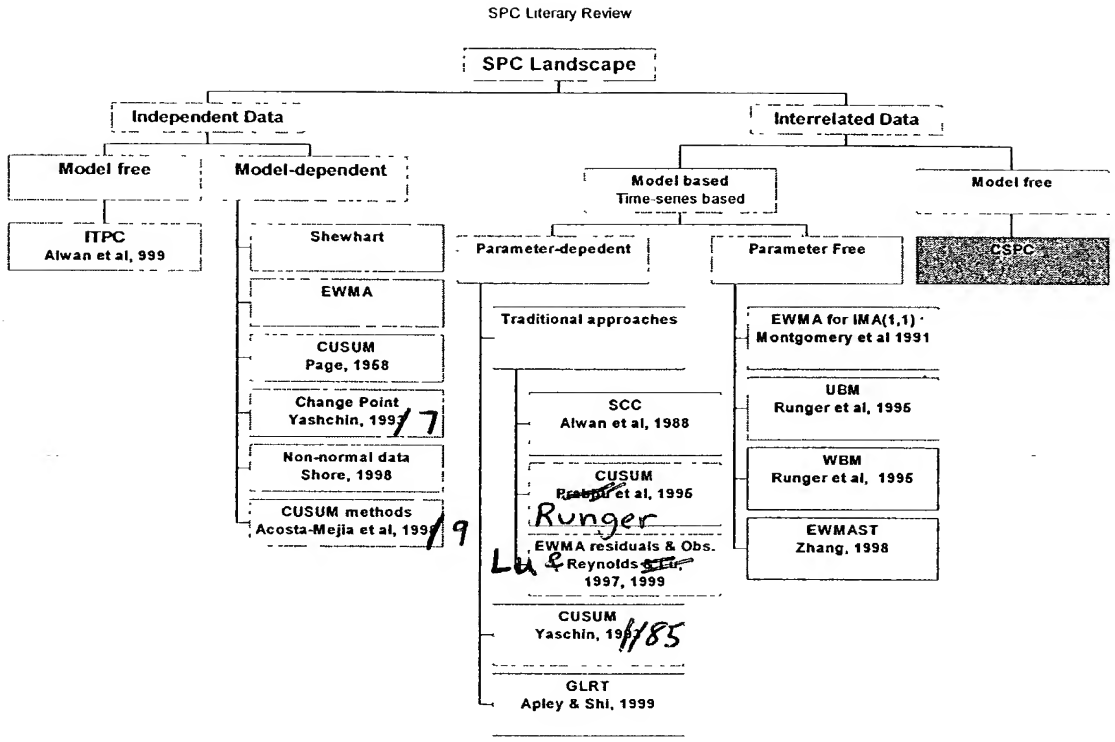


Figure 1: SPC Characterization methods

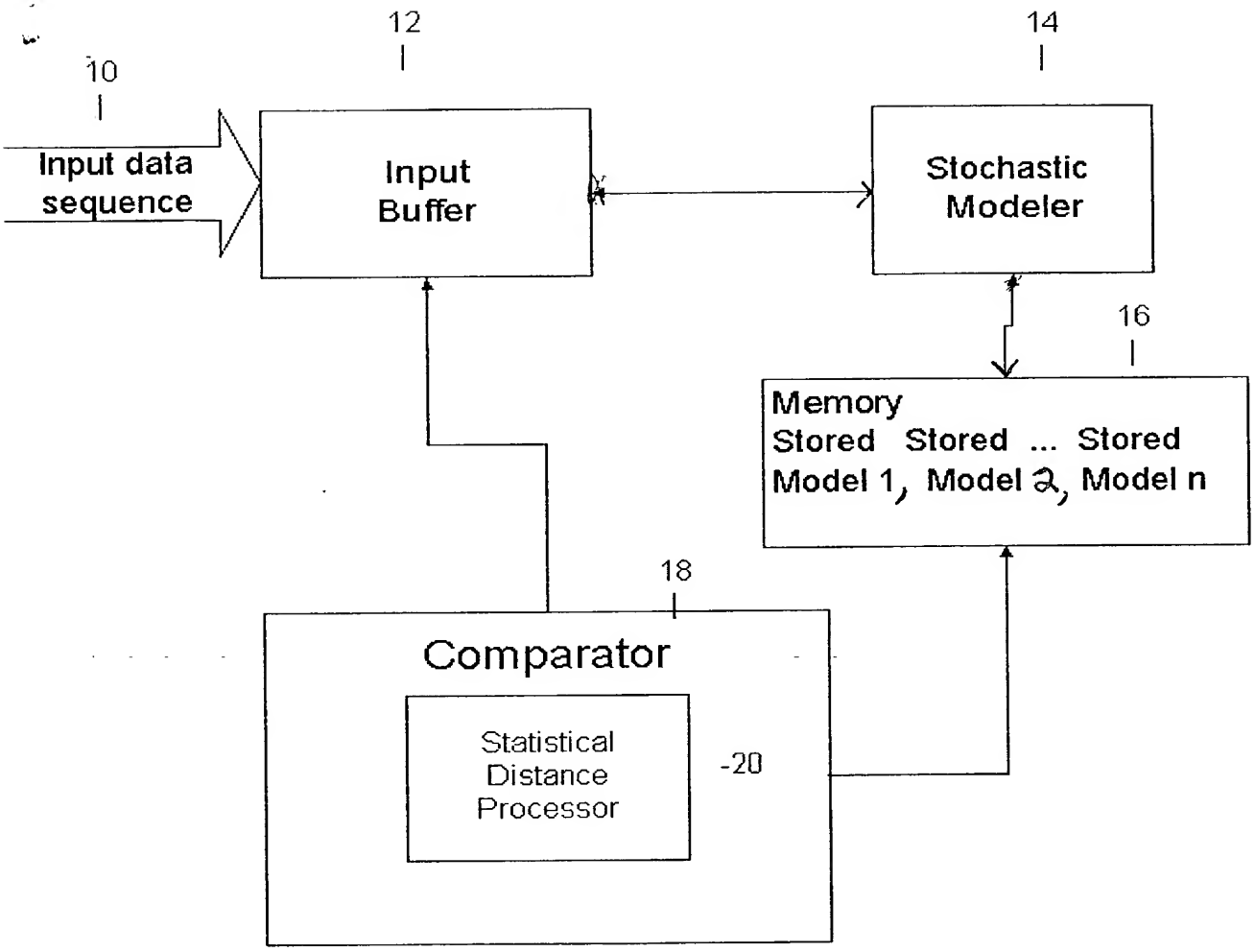

12
14
10
Input data sequence
Input Buffer
Stochastic Modeler
16
Memory
Stored Stored ... Stored
Model 1, Model 2, Model n
18
Comparator
Statistical Distance Processor
-20

Fig. 2

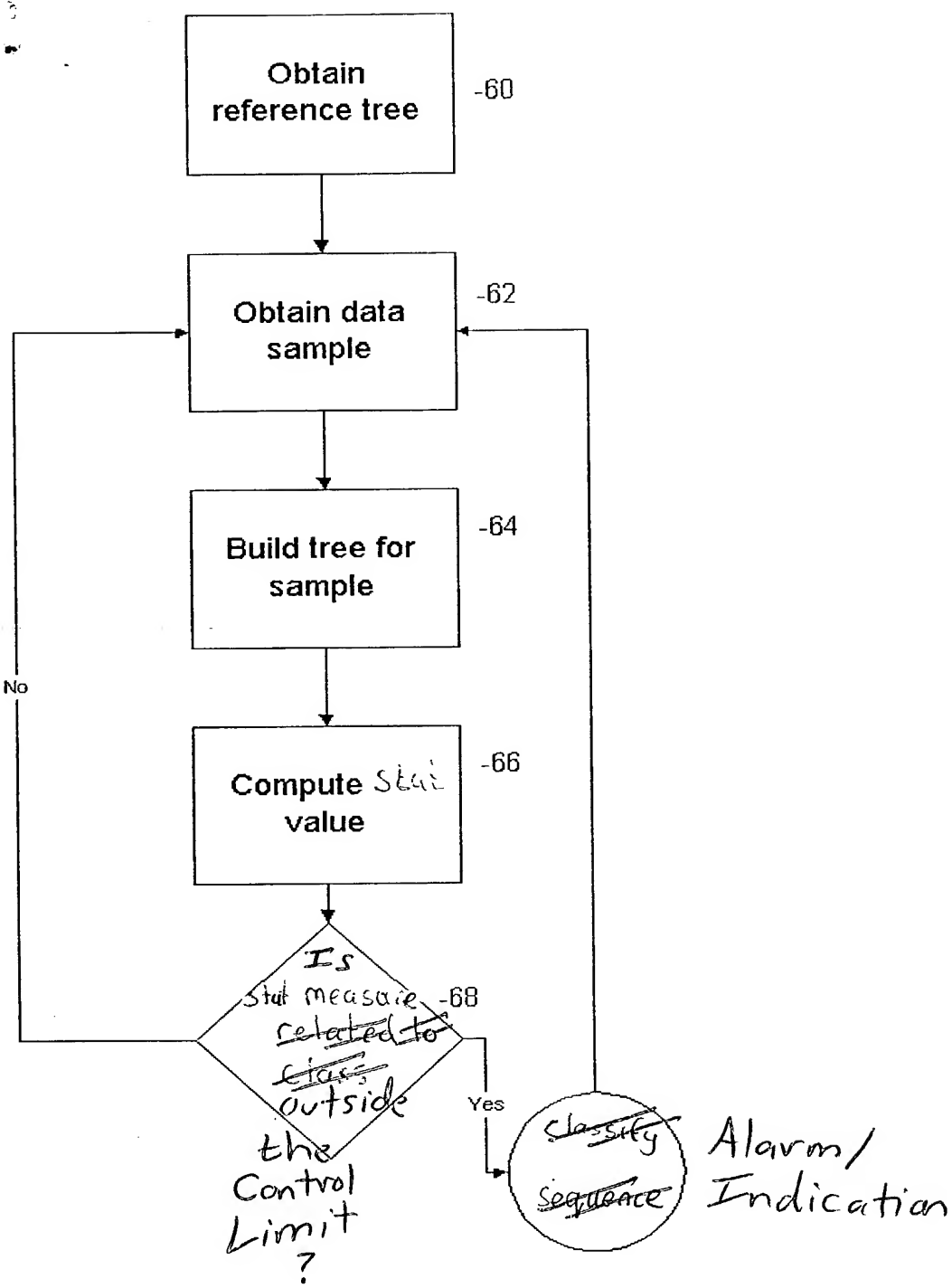

Obtain reference tree
-60
Obtain data sample
-62
Build tree for sample
-64
Compute Stat value
-66
Is Stat measure related to class Outside the Control Limit ?
-68
No
Yes
Classify sequence
Alarm/ Indication

Fig. 5A

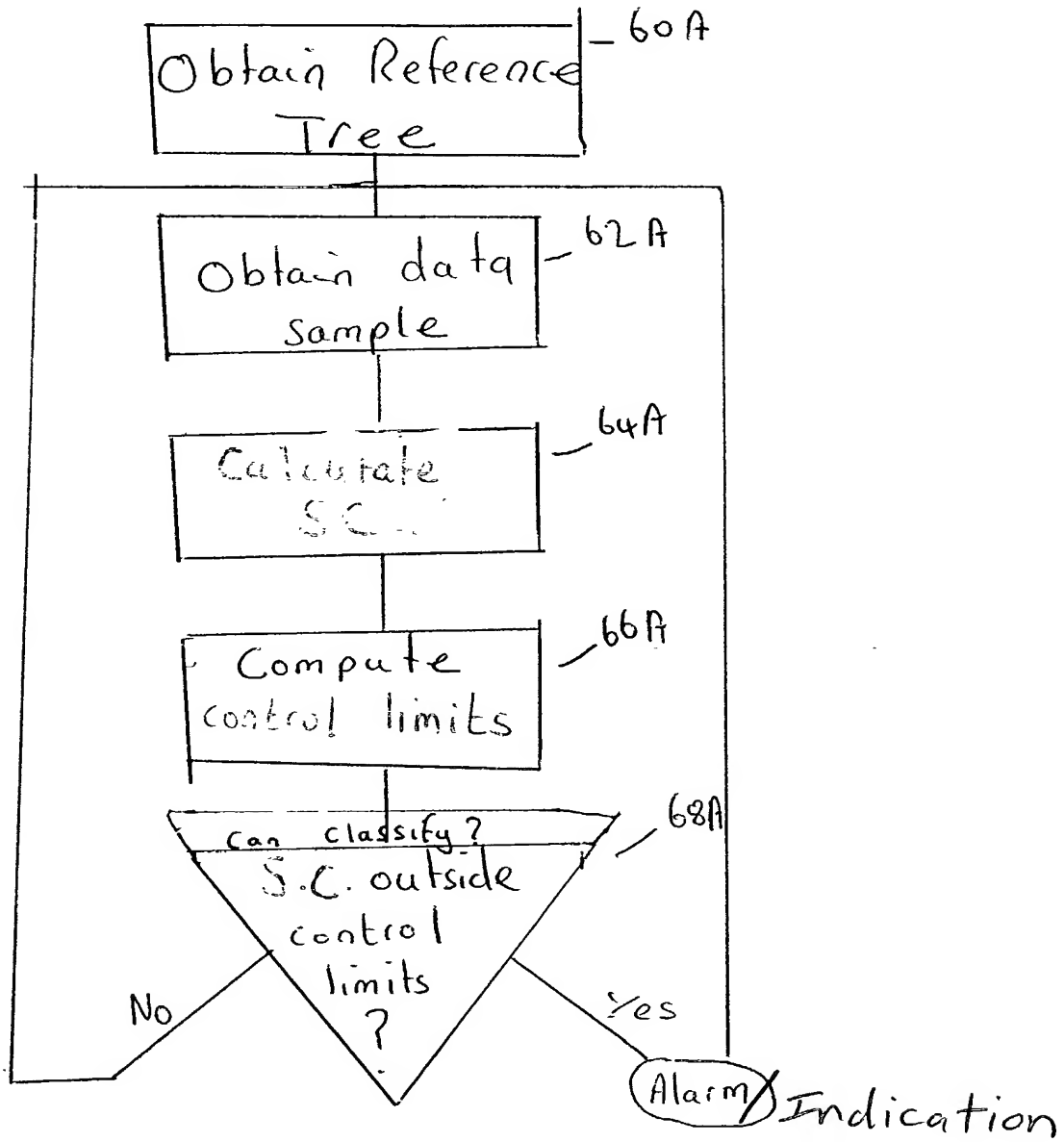
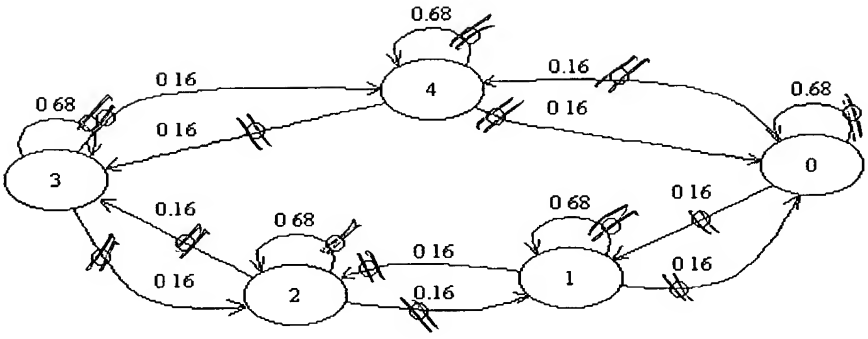
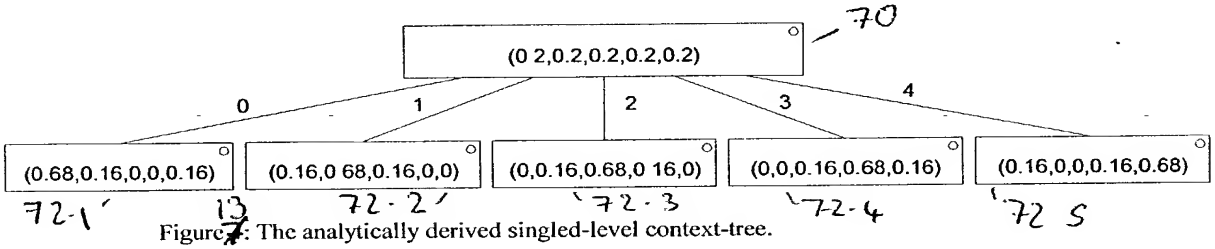

Obtain Reference Tree
60A
Obtain data sample
62A
Calculate S.C.
64A
Compute control limits
66A
Can classify? S.C. outside control limits ?
68A
No
Yes
Alarm/Indication

Fig. 5B



12

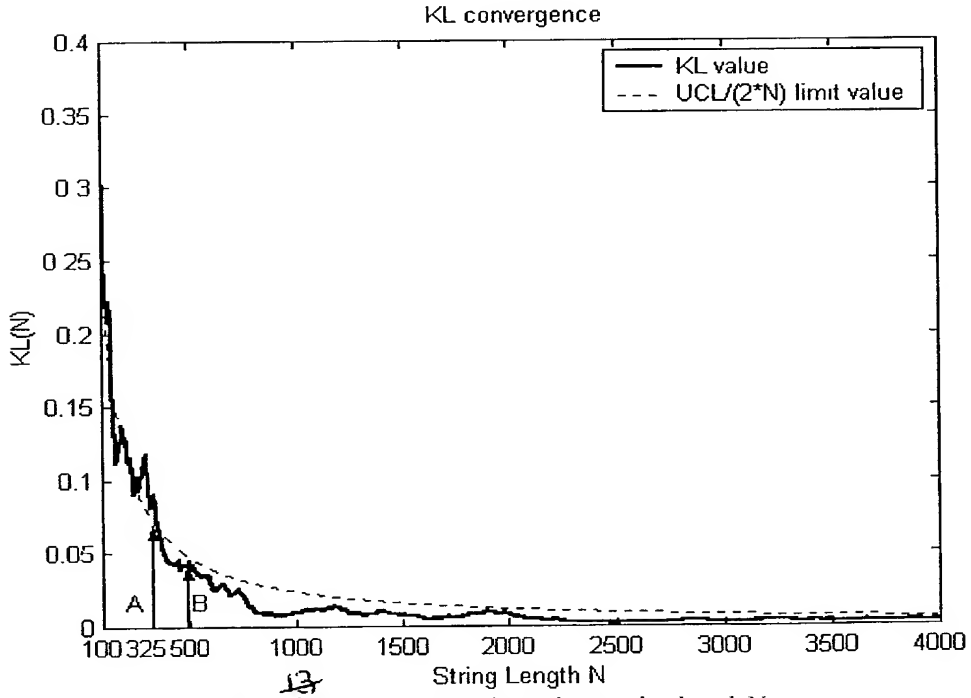
Figure 6 State transition diagram



70

72-1 13 72-2 72-3 72-4 72 5

Figure 7: The analytically derived singled-level context-tree.



13

Figure 8: KL value in relation to input string length N

14

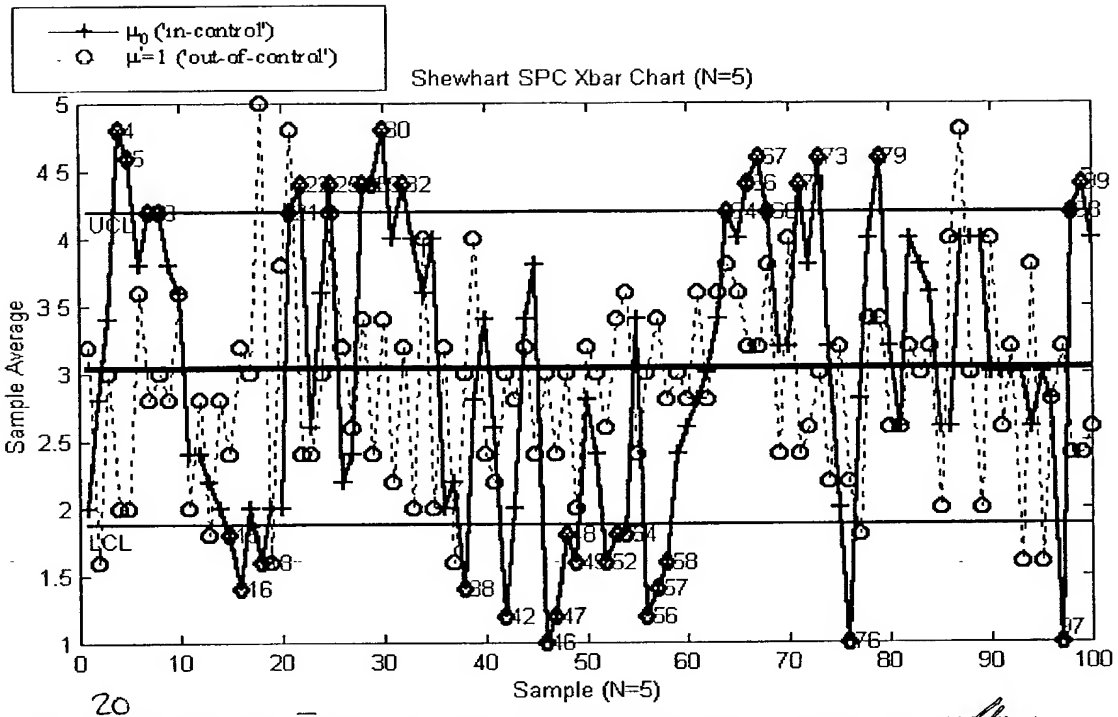


Figure 14 Shewhart SPC $\overline{X}$ chart - 'in-control' data (solid line) and 'out-of-control' data (thin line)

dashed